Russia May Be Testing the

Re-Entry of Weapons From Space

By EVERT CLARK

Special to The New York Times WASHINGTON, Aug. 19unusual sequence of space launchings by the Soviet Union has led some American officials to conclude that the Russians are testing techniques for reentering warheads from space.

This could mean that the Russians are developing weapons to be stationed in orbit. Weapon re-entry techniques can be tested with or without the use of weapons, and the same re-entry techniques can be used for either nuclear or conventional weapons.

The flights began last September in what was unusual secrecy even for the Russians. The most recent flight in the series of seven was made 11

U.N. Resolution Recalled

Since before the space age began, military analysts have discussed the possibility of sta-dopted by the General Assem-officials disclosed their con-cern over these two flights, ideas proposed have included port, calls upon all states to re-bombs, missiles that could in-frain from placing weapons of ficial catalogue even though tercept other missiles launched mass destruction in orbit. from earth and manned bombers and inspection-interceptor this prohbits the development. Even earlier than that, some of such weapons as never been military men said privately that A United Nations resolution, resolved. Soviet military lead-tithey suspected Moscow had



Launching site is at cross.

ers boasted in November, 1965, of an "orbital missile" that could deliver nuclear warheads "on the first or any other or-bit around the earth."

Not until last September, however, did the Russians con-duct a launching that appeared to be a test of such a weapon.

That flight, on Sept. 17, 1966 was made from Tyuratam in Kazakhstan. Its angle of incli-nation to the equator was different from that of any previous Soviet shot.

Soon after launching, the vehicle was observed by Western tracking stations to break into at least 80 pieces. On Nov. 2, 1966, a similar shot was made.

Russia did not report the launching of either vehicle, although it has long used its so-called "scientific" cosmos satellite series to disguise military flights, according to American officials.

In December, 1966, American

entry of warheads from orbit. On Jan. 25 of this year, Russia again launched a vehicle from Tyuratam at a 49-degree angle. This one apparently did not break into a great number of pieces as the two earlier ones had. But it remained in flight for a very short time. This time, Russia announced the flight as Cosmos 139, presumably deciding that Western detection and discussion of the two earlier flights made it use pletely aside from the political not exist. If

did not report a period for Cosmos 139—the length of time that the satellite would take to complete each revolution in

space.

mos number.
Both the United States and

But Dr. Charles M. Herzfeld, then a Pentagon scientist, re-The unusual, short-lived minded Congressmen late last flights at 49 degrees from the March that studies of a space-Tyuratam base have been re-based anti-missile system were peated at least four more times abandoned three years ago besince. Each was given a Cos-cause the work was "much too mos number."

"We think the time is getting Both the United States and Russia are developing maneuverable warhcads for missiles—warhcads that can alter their the costs of putting things in path last the control of the said, "to look at the whole question because warhcads that can alter their the costs of putting things in path last the control of the system ought to believed to have experimented come down elegations to

believed to have experimented come down significantly.

finally begun tests of the re-extensively with the precise entry of warheads from orbit.

not exist. h

But Soviet announcements did not report a national such a such a